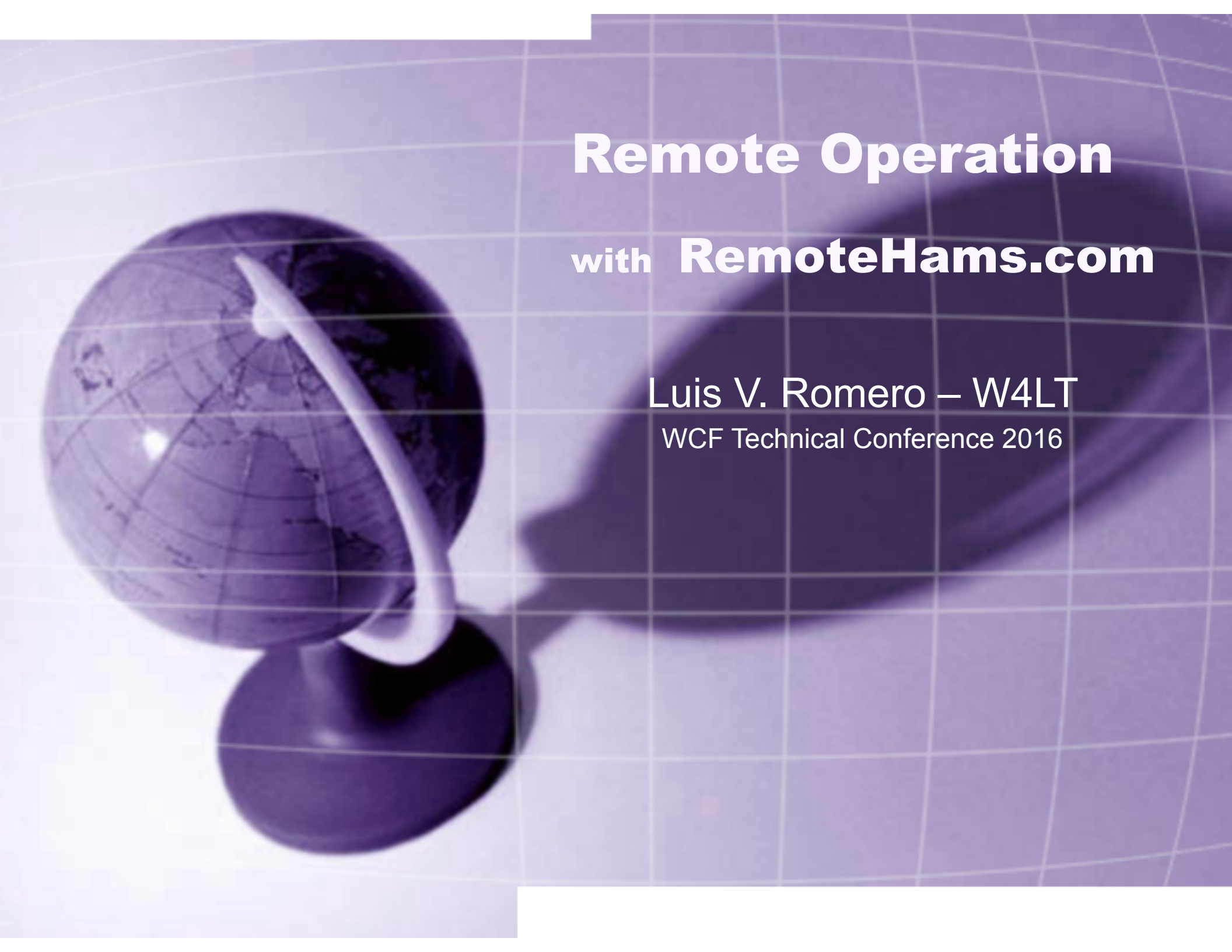


# Remote Operation

## with RemoteHams.com

Luis V. Romero – W4LT

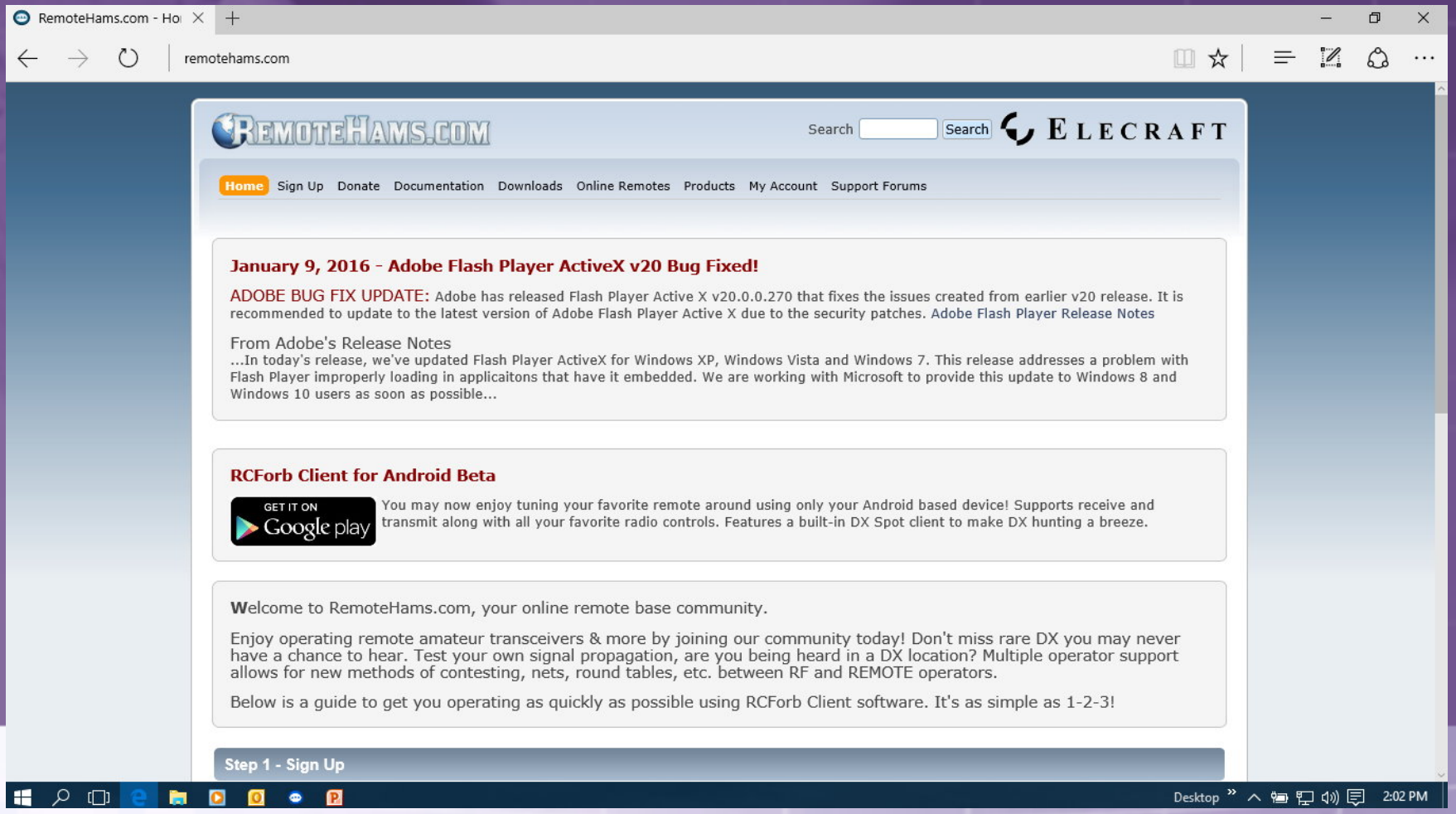
WCF Technical Conference 2016

# Overview

- What is RemoteHams
- What Software is needed
  - The Client
  - The Server
- What hardware is needed
- Setting it up (With a TS590)
- Live Demonstration

# What is RemoteHams.com

- "Open Source" project providing software to enable remote station ops.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REMOTEHAMS.COM
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Documentation
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Support Forums
January 9, 2016 - Adobe Flash Player ActiveX v20 Bug Fixed!
ADOBE BUG FIX UPDATE: Adobe has released Flash Player Active X v20.0.0.270 that fixes the issues created from earlier v20 release. It is recommended to update to the latest version of Adobe Flash Player Active X due to the security patches. Adobe Flash Player Release Notes
From Adobe's Release Notes
...In today's release, we've updated Flash Player ActiveX for Windows XP, Windows Vista and Windows 7. This release addresses a problem with Flash Player improperly loading in applicaitons that have it embedded. We are working with Microsoft to provide this update to Windows 8 and Windows 10 users as soon as possible...
RCForb Client for Android Beta
GET IT ON Google play
You may now enjoy tuning your favorite remote around using only your Android based device! Supports receive and transmit along with all your favorite radio controls. Features a built-in DX Spot client to make DX hunting a breeze.
Welcome to RemoteHams.com, your online remote base community.
Enjoy operating remote amateur transceivers & more by joining our community today! Don't miss rare DX you may never have a chance to hear. Test your own signal propagation, are you being heard in a DX location? Multiple operator support allows for new methods of contesting, nets, round tables, etc. between RF and REMOTE operators.
Below is a guide to get you operating as quickly as possible using RCForb Client software. It's as simple as 1-2-3!
Step 1 - Sign Up
Desktop
2:02 PM

# What is RemoteHams.com

- The Client (that runs on the computer you want to use as the remote)

RCForb_Client_nnn.nnnn.exe

- The Server (that runs on the computer that is connected to the radio)

RCForb_Server_nnn.nnnn.exe

# What is RemoteHams.com

- Computer requirement for Client:
  - Windows XP, Vista, 7, 8, 10
  - .NET Framework 4.0
  - Adobe Flash Player Active X
  - 1.0 GHz CPU minimum
  - 1GB RAM minimum
  - Sound Card for audio
  - Headset/microphone for SSB
  - 256kbps internet connection

# What is RemoteHams.com

- Computer requirement for Server:
  - Windows XP, Vista, 7, 8, 10
  - .NET Framework 4.0
  - 1.0 GHz Dual Core CPU (or better!)
  - 1GB RAM (if only running this application)
  - 256kbps internet connection

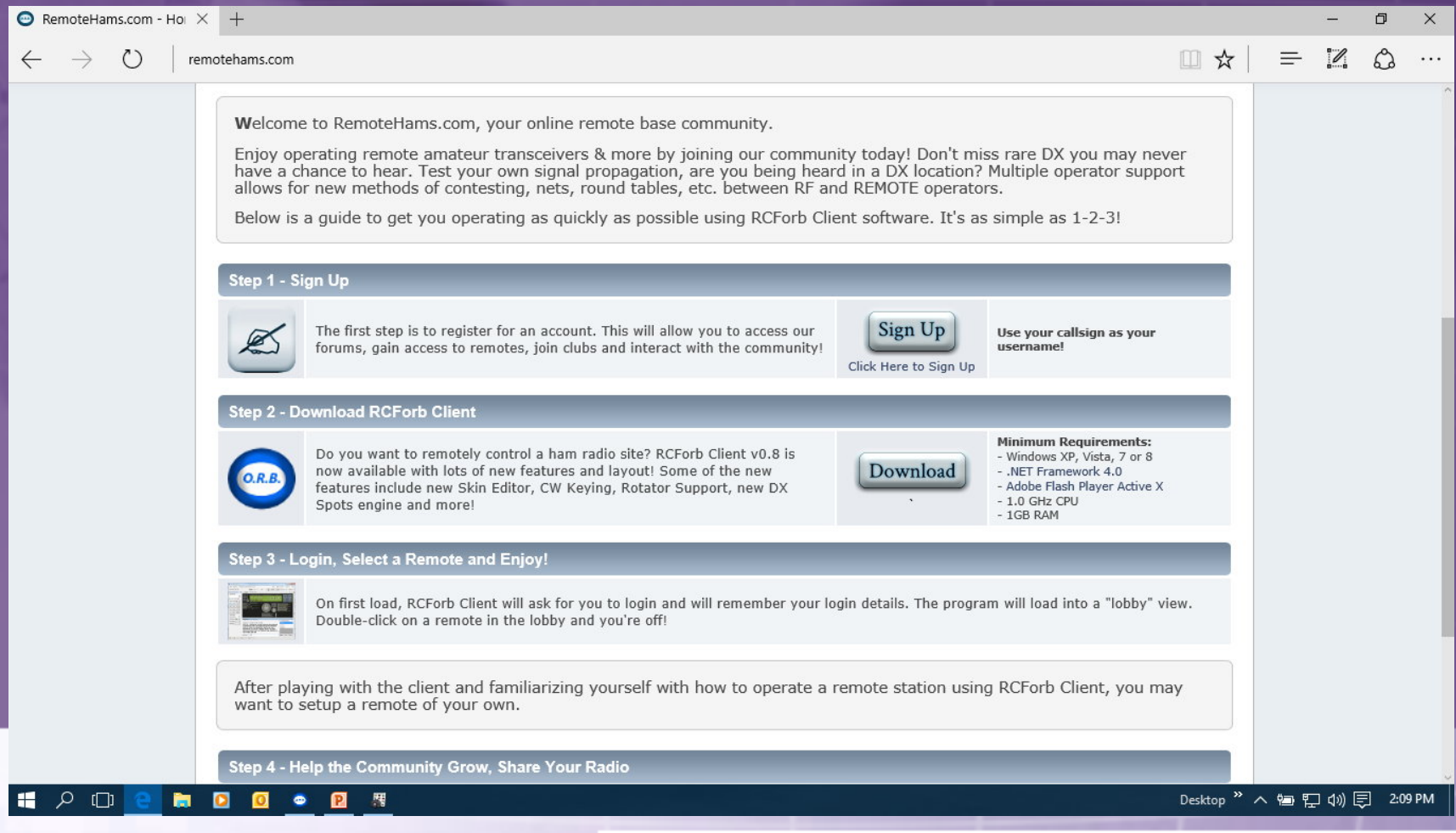
# What is RemoteHams.com

- Computer requirement for Server:
  - Windows XP, Vista, 7, 8, 10
  - .NET Framework 4.0
  - 1.0 GHz Dual Core CPU (or better!)
  - 1GB RAM (if only running this application)
  - 256kbps internet connection

I recommend a Dual Core machine as a minimum for good overhead if running remote access and configuration software (Like Team Viewer, anti-virus and other handy utilities). Starving the software of memory and processor will lead to sluggish tuning and audio stuttering… always a bad thing!

# Downloading the Client

- To get started:  Join the group
  - Download the client first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Below is a guide to get you operating as quickly as possible using RCForb Client software. It's as simple as 1-2-3!
Step 1 - Sign Up
The first step is to register for an account. This will allow you to access our forums, gain access to remotes, join clubs and interact with the community!
Sign Up
Click Here to Sign Up
Use your callsign as your username!
Step 2 - Download RCForb Client
O.R.B.
Do you want to remotely control a ham radio site? RCForb Client v0.8 is now available with lots of new features and layout! Some of the new features include new Skin Editor, CW Keying, Rotator Support, new DX Spots engine and more!
Download
Minimum Requirements:
- Windows XP, Vista, 7 or 8
- .NET Framework 4.0
- Adobe Flash Player Active X
- 1.0 GHz CPU
- 1GB RAM
Step 3 - Login, Select a Remote and Enjoy!
On first load, RCForb Client will ask for you to login and will remember your login details. The program will load into a "lobby" view. Double-click on a remote in the lobby and you're off!
After playing with the client and familiarizing yourself with how to operate a remote station using RCForb Client, you may want to setup a remote of your own.
Step 4 - Help the Community Grow, Share Your Radio
Desktop
2:09 PM

# RemoteHams.com Client

- The client allows:
  - Connecting to the remote bases on the system
  - Manage audio from the radio and microphone to the radio in SSB/Digital
  - Manage sending and receiving CW via the computer keyboard
  - Display a virtual radio front panel on your computer monitor, tune and adjust the transceiver controls

# License issues

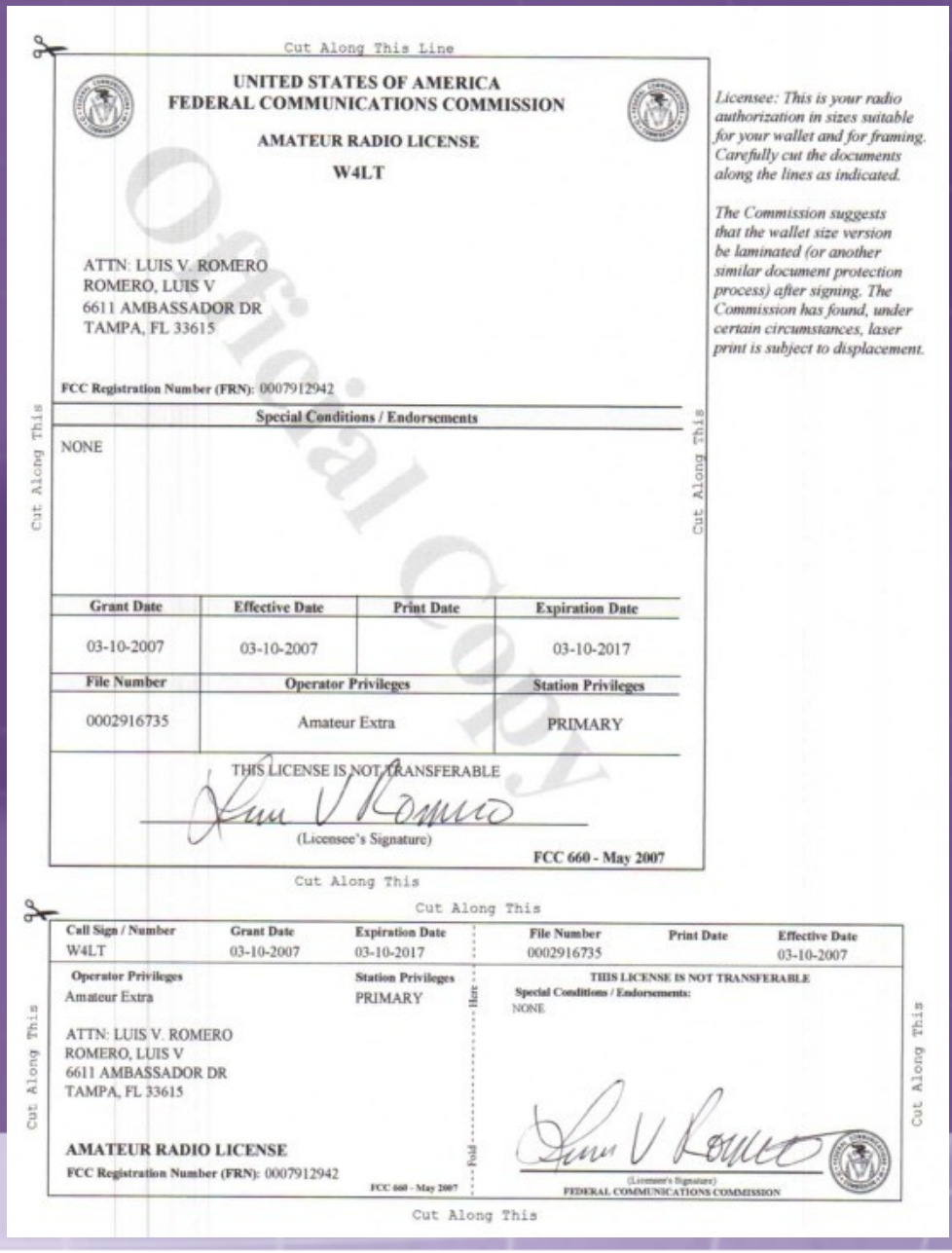
- The system will require you supply your Amateur license via upload
- This will allow owners of the remote bases to ascertain if you are a “real” licensed ham
- Either scan your existing license, take a photo of it, or download a copy from the FCC ULS website
- “ORIGINAL” ULS versions only!

# License issues

An Original license from the ULS Says that it is an OFFICIAL COPY.

REFERENCE COPIES can be downloaded by anyone.

See the ULS instructions or the ARRL website for information on how to download an OFFICIAL COPY of your Amateur radio license



Cut Along This Line

UNITED STATES OF AMERICA
FEDERAL COMMUNICATIONS COMMISSION

AMATEUR RADIO LICENSE

W4LT

*Licensee: This is your radio authorization in sizes suitable for your wallet and for framing. Carefully cut the documents along the lines as indicated.*

*The Commission suggests that the wallet size version be laminated (or another similar document protection process) after signing. The Commission has found, under certain circumstances, laser print is subject to displacement.*

ATTN: LUIS V. ROMERO
ROMERO, LUIS V
6611 AMBASSADOR DR
TAMPA, FL 33615

FCC Registration Number (FRN): 0007912942

Special Conditions / Endorsements

NONE

| Grant Date | Effective Date | Print Date | Expiration Date |
|---|---|---|---|
| 03-10-2007 | 03-10-2007 | | 03-10-2017 |
| File Number | Operator Privileges | | Station Privileges |
| 0002916735 | Amateur Extra | | PRIMARY |

THIS LICENSE IS NOT TRANSFERABLE

(Licensee's Signature)

FCC 660 - May 2007

Cut Along This

Cut Along This

| Call Sign / Number | Grant Date | Expiration Date | File Number | Print Date | Effective Date |
|---|---|---|---|---|---|
| W4LT | 03-10-2007 | 03-10-2017 | 0002916735 | | 03-10-2007 |

Operator Privileges: Amateur Extra

Station Privileges: PRIMARY

ATTN: LUIS V. ROMERO
ROMERO, LUIS V
6611 AMBASSADOR DR
TAMPA, FL 33615

AMATEUR RADIO LICENSE

FCC Registration Number (FRN): 0007912942

FCC 660 - May 2007

Fold Here

THIS LICENSE IS NOT TRANSFERABLE

Special Conditions / Endorsements:

NONE

(Licensee's Signature)

FEDERAL COMMUNICATIONS COMMISSION

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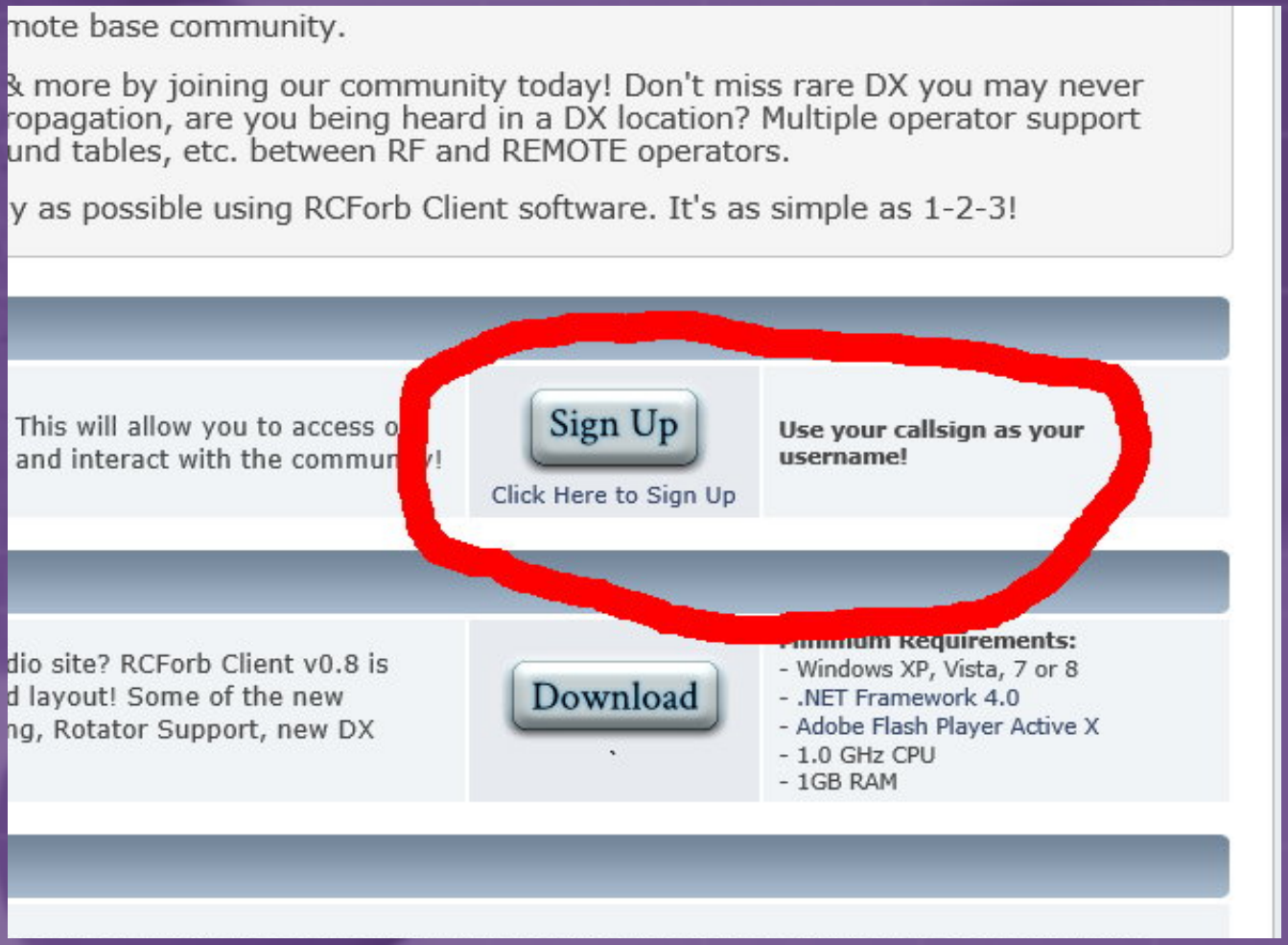
Official Copy

# License issues

- You don’t need a license to only listen
- Want to transmit?  Ask for permission
- Each owner decides who will or will not be allowed to transmit on his station
- Each station owner is responsible for license verification
- Some stations require club membership to operate
- License legality is your responsibility in the case of foreign stations

# Using RemoteHams.com

- Sign up for the support forums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Minimum Requirements:
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- .NET Framework 4.0
- Adobe Flash Player Active X
- 1.0 GHz CPU
- 1GB RAM

# Using RemoteHams.com

- There really is no operations manual
- The forums are the place to ask questions and learn how to use the software
- The software is rapidly evolving, so it pays to monitor the forums
- The principal developers monitor the forum and are very responsive.

# Setting up your Radio

- Download the SERVER software
- Run the executable on your computer
- Configure your Audio parameters
- Open ports on your router as follows:
  - TCP 843
  - TCP 4524
  - TCP 4525

# Setting up your Radio

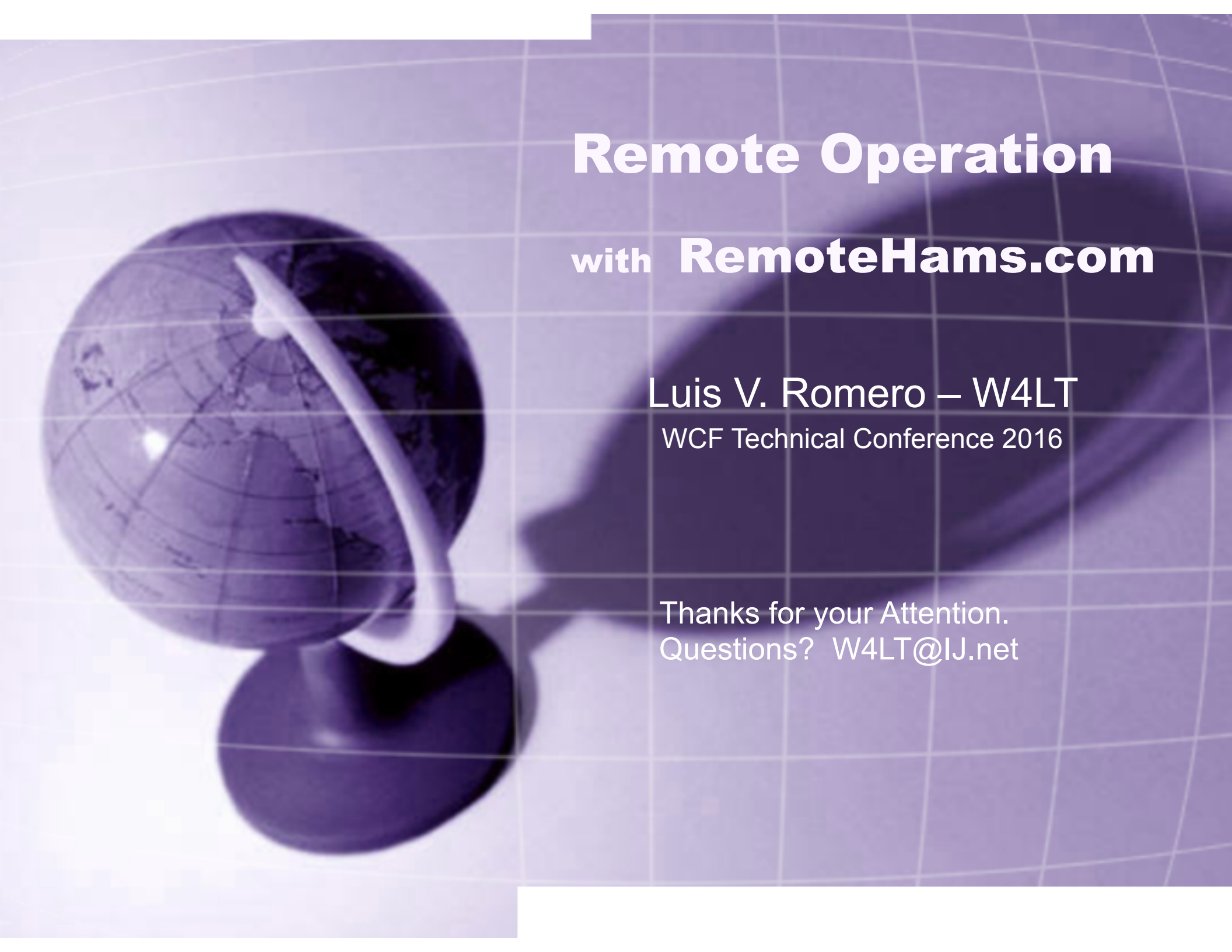
- Configure your radio and control ports
- Add the information you want to present to the internet in the Publishing tab

Rock and Roll!  You are online! Its that easy!

# And now: The Live Demo!

- Lets see how to access stations with a live demo on the internet.
- Lets take a look first as to how configure your client
- Then, if there is time and interest, I can show how to configure the server remotely

Remote Operation
with RemoteHams.com
LIVE DEMO
GOES HERE!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WCF Technical Conference 2016
Thanks for your Attention.
Questions? W4LT@IJ.net